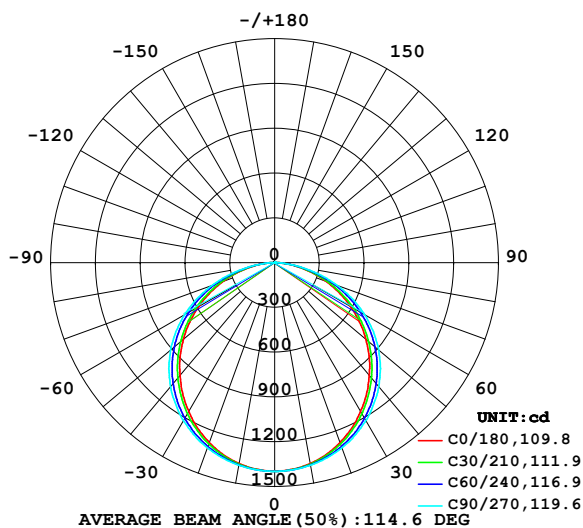


LUMINAIRE PHOTOMETRIC TEST REPORT

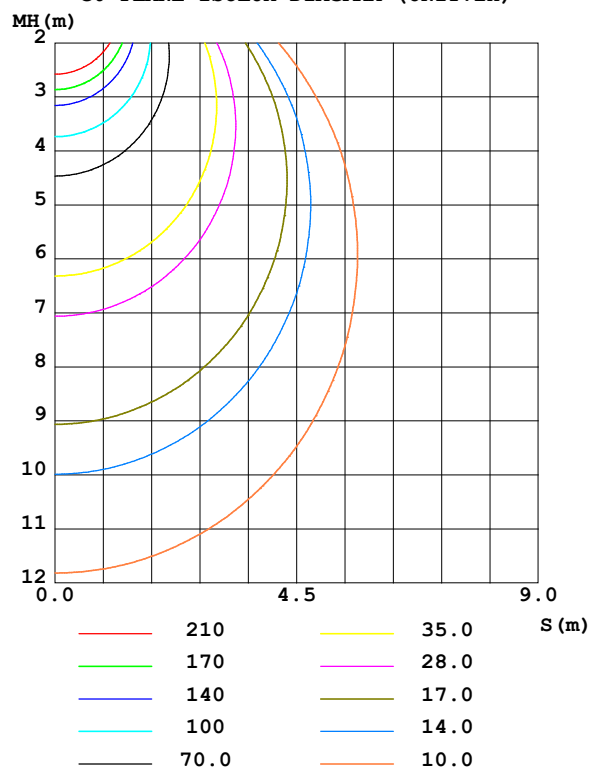
Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 133.94 lm/W
MODEL		I _{max} (cd)	1398	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	32	LOR(%)	100.0	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4082.3	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	4082.28	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.9	
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120.078	η down (%)	99.8	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

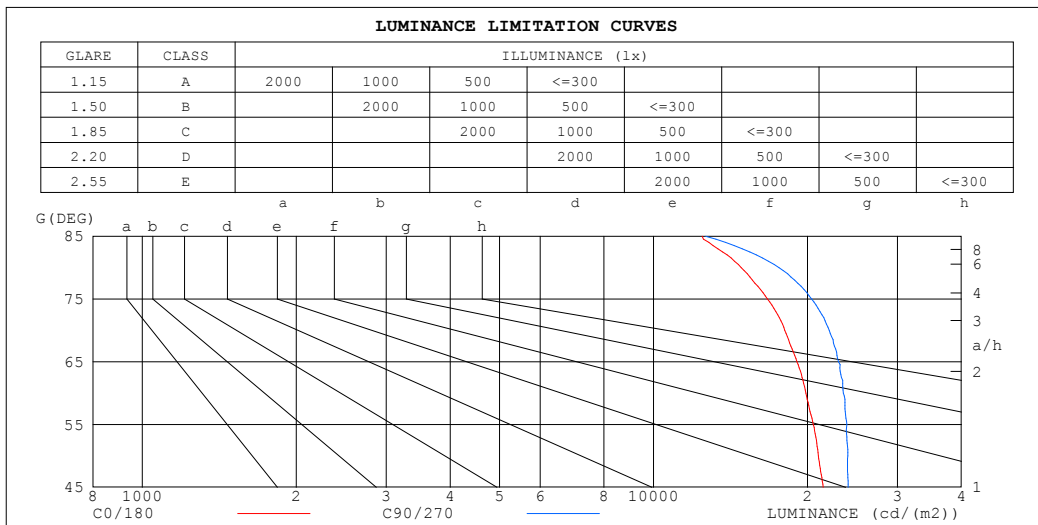
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1367	1373	1378	1373	1367	1373	1378	1373	0- 10	132.3	132.3	3.24,3.24
20	1282	1301	1319	1301	1282	1301	1319	1301	10- 20	379.0	511.3	12.5,12.5
30	1151	1186	1222	1186	1151	1186	1222	1186	20- 30	575.7	1087	26.6,26.6
40	986.6	1033	1086	1033	986.6	1033	1086	1033	30- 40	697.5	1785	43.7,43.7
50	797.7	848.4	910.3	848.4	797.7	848.4	910.3	848.4	40- 50	730.1	2515	61.6,61.6
60	586.4	636.4	694.4	636.4	586.4	636.4	694.4	636.4	50- 60	668.5	3183	78,78
70	364.9	400.0	445.4	400.0	364.9	400.0	445.4	400.0	60- 70	516.6	3700	90.6,90.6
80	152.2	164.1	180.4	164.1	152.2	164.1	180.4	164.1	70- 80	297.8	3998	97.9,97.9
90	11.81	6.740	3.611	6.740	11.81	6.740	3.611	6.740	80- 90	77.60	4075	99.8,99.8
100	0.3416	0.3341	0.2946	0.3341	0.3416	0.3341	0.2946	0.3341	90-100	1.066	4076	99.9,99.9
110	0.5118	0.5084	0.4698	0.5084	0.5118	0.5084	0.4698	0.5084	100-110	0.4441	4077	99.9,99.9
120	0.7152	0.6945	0.6608	0.6945	0.7152	0.6945	0.6608	0.6945	110-120	0.5933	4077	99.9,99.9
130	1.073	1.006	0.9746	1.006	1.073	1.006	0.9746	1.006	120-130	0.7388	4078	99.9,99.9
140	1.673	1.593	1.541	1.593	1.673	1.593	1.541	1.593	130-140	0.9908	4079	99.9,99.9
150	2.406	2.258	2.199	2.258	2.406	2.258	2.199	2.258	140-150	1.218	4080	99.9,99.9
160	2.701	2.539	2.478	2.539	2.701	2.539	2.478	2.539	150-160	1.137	4081	100,100
170	2.672	2.542	2.494	2.542	2.672	2.542	2.494	2.542	160-170	0.7257	4082	100,100
180	2.777	2.613	2.541	2.613	2.777	2.613	2.541	2.613	170-180	0.2471	4082	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500:

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12450	12642
80	14840	17591
75	16711	20395
70	18066	22054
65	19089	23025
60	19860	23520
55	20530	23873
50	21015	23982
45	21481	24029

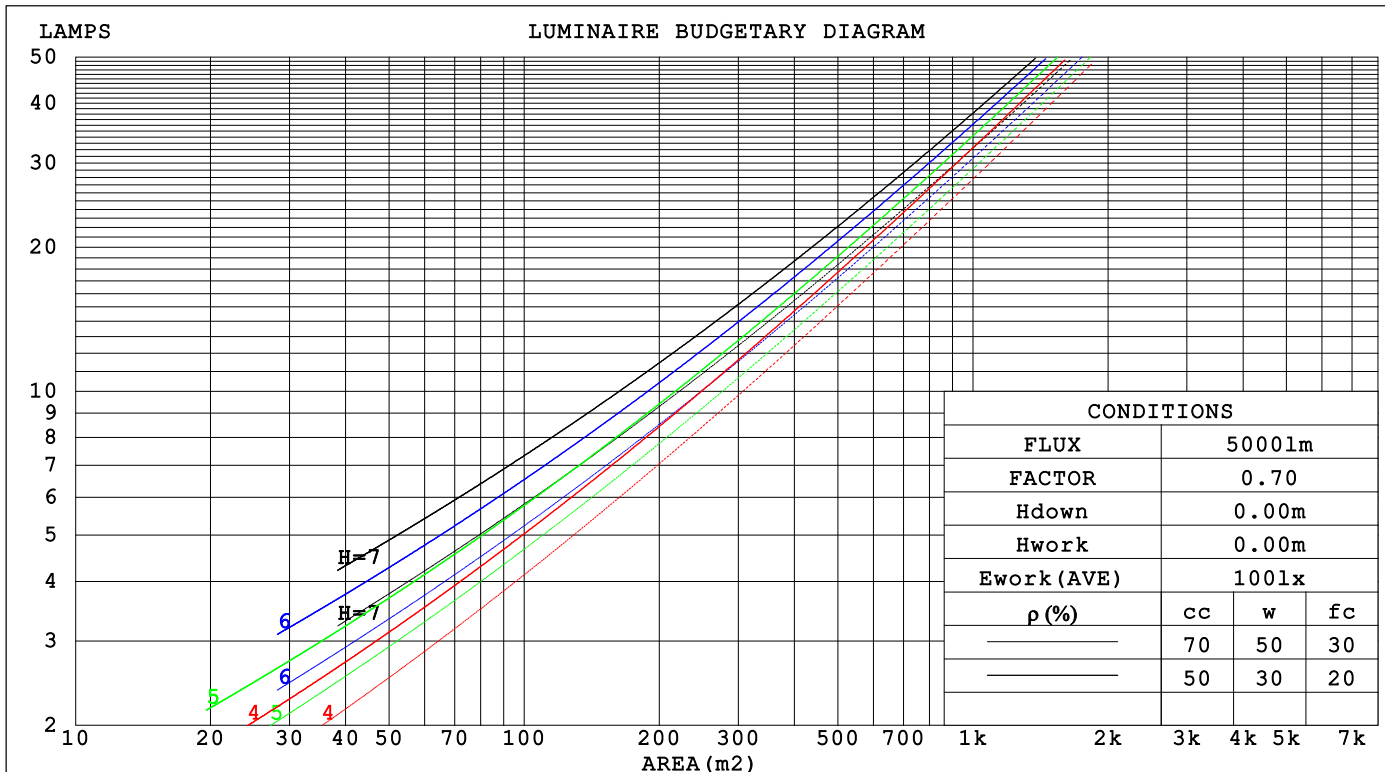
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.2°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 45.1%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

WEC AND CCEC

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.313	.178	.056	.306	.174	.055	.292	.168	.054	.280	.161	.052	.269	.156	.050															
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.046															
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041															
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036															
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.204	.109	.033															
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030															
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027															
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025															
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023															
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021															

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.182	.157	.135	.156	.135	.117	.106	.093	.081	.061	.054	.047	.020	.017	.015	
2.0	.174	.133	.099	.149	.115	.086	.102	.079	.060	.059	.046	.035	.019	.015	.011	
3.0	.166	.116	.075	.143	.100	.065	.098	.069	.046	.057	.040	.027	.018	.013	.009	
4.0	.159	.102	.059	.136	.088	.052	.094	.062	.036	.054	.036	.022	.017	.012	.007	
5.0	.151	.092	.048	.130	.080	.042	.089	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.040	.124	.072	.035	.085	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.137	.077	.034	.118	.067	.030	.082	.047	.021	.047	.027	.013	.015	.009	.004	
8.0	.131	.071	.030	.113	.062	.026	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.102	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

UGR(Unified Glare Rating) Table

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm										
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ETi Solid State lighting, Inc.					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	23.3	24.8	23.6	25.0	25.2	24.0	25.6	24.3	25.8	26.0
3H	24.8	26.2	25.1	26.4	26.7	25.7	27.1	26.0	27.4	27.6
4H	25.3	26.7	25.7	26.9	27.2	26.4	27.7	26.7	28.0	28.2
6H	25.8	27.0	26.1	27.3	27.6	26.8	28.1	27.1	28.3	28.6
8H	25.9	27.1	26.2	27.4	27.7	26.9	28.1	27.3	28.4	28.7
12H	25.9	27.1	26.3	27.4	27.7	27.0	28.1	27.3	28.4	28.8
4H 2H	24.0	25.3	24.3	25.6	25.9	24.6	25.9	24.9	26.2	26.4
3H	25.6	26.8	26.0	27.1	27.4	26.4	27.6	26.8	27.9	28.2
4H	26.3	27.4	26.7	27.7	28.1	27.2	28.3	27.6	28.6	29.0
6H	26.9	27.8	27.3	28.2	28.5	27.8	28.7	28.2	29.1	29.5
8H	27.0	27.9	27.4	28.3	28.7	28.0	28.8	28.4	29.2	29.6
12H	27.1	28.0	27.6	28.3	28.8	28.0	28.9	28.5	29.3	29.7
8H 4H	26.7	27.6	27.1	27.9	28.3	27.4	28.3	27.8	28.7	29.1
6H	27.3	28.1	27.8	28.5	28.9	28.1	28.9	28.6	29.3	29.7
8H	27.6	28.2	28.0	28.7	29.1	28.4	29.0	28.9	29.5	29.9
12H	27.7	28.3	28.2	28.8	29.2	28.5	29.1	29.0	29.6	30.0
12H 4H	26.7	27.5	27.1	27.9	28.3	27.4	28.2	27.9	28.6	29.0
6H	27.4	28.0	27.9	28.5	28.9	28.2	28.8	28.6	29.3	29.7
8H	27.7	28.2	28.2	28.7	29.2	28.5	29.0	28.9	29.5	30.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 4082 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.9)
Area: 0.05905 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

UTILIZATION FACTORS TABLE

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

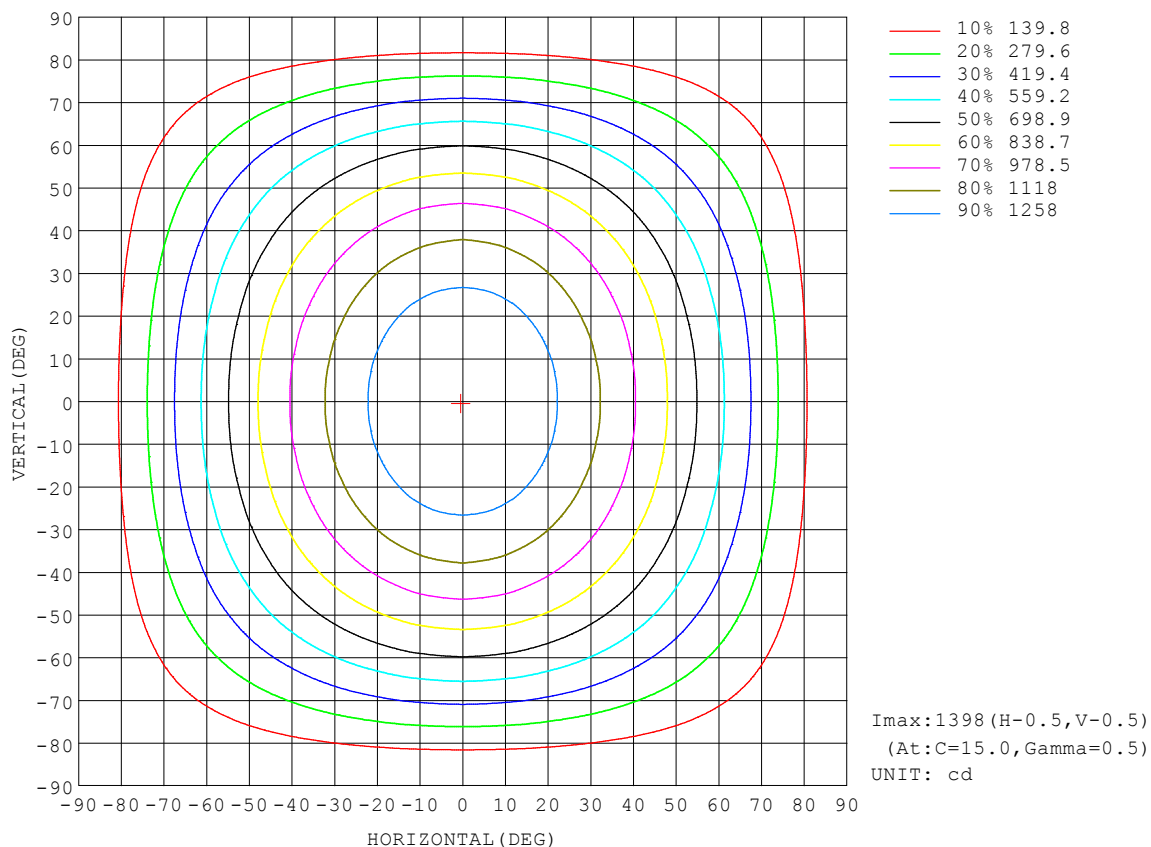
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.2°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 45.1%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

ISOCANDELA DIAGRAM

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

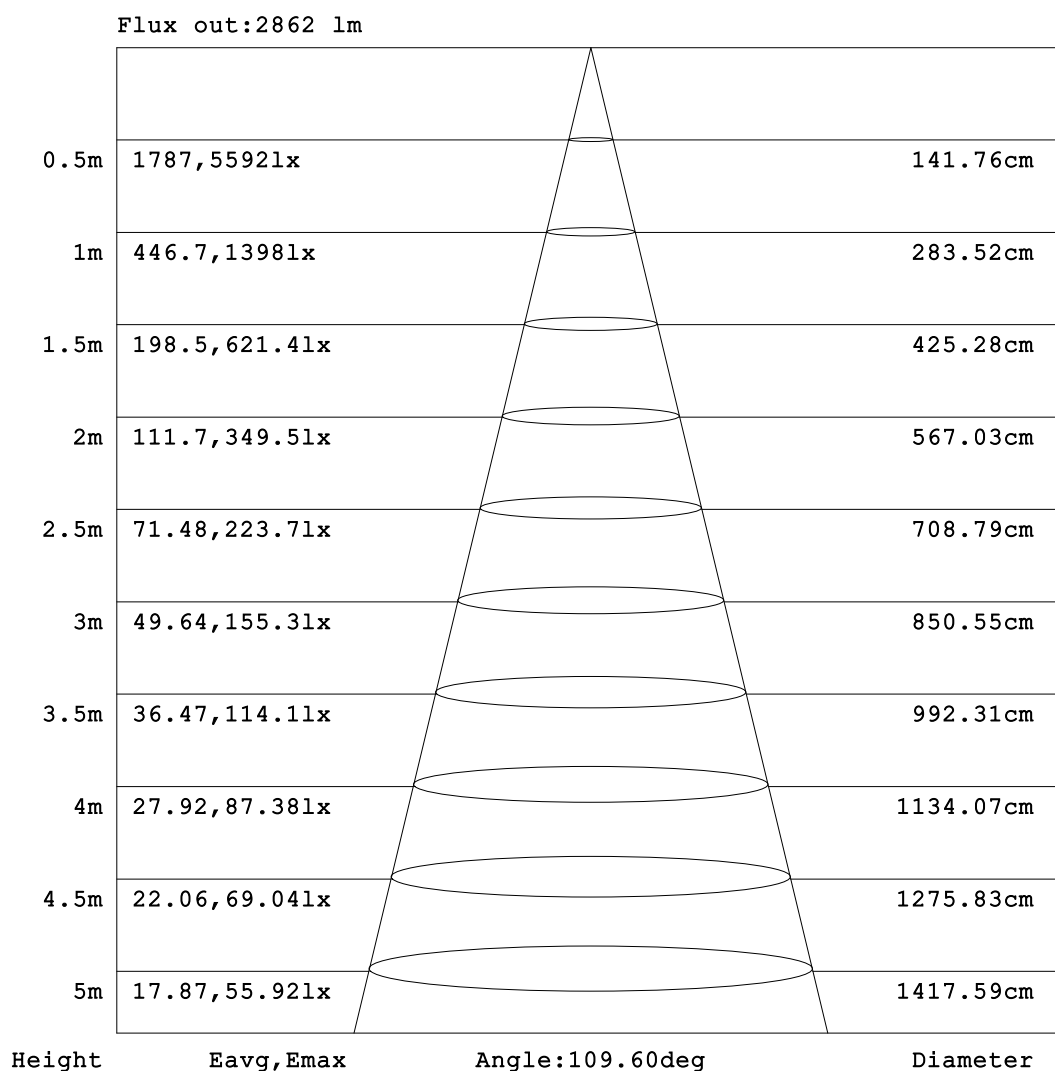


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

AAI Figure

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

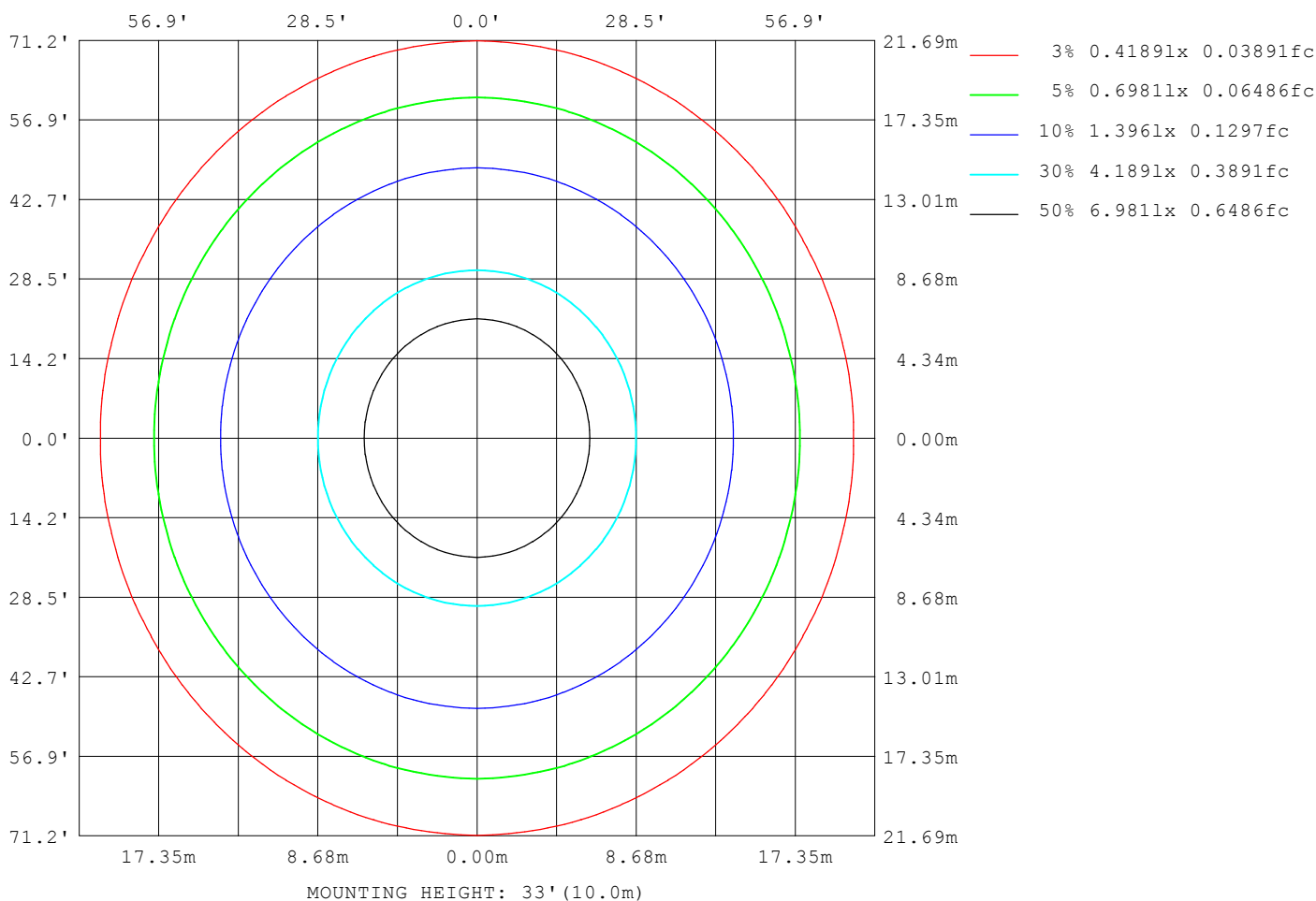


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

ISOLUX DIAGRAM

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

LED Avg.L Report

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

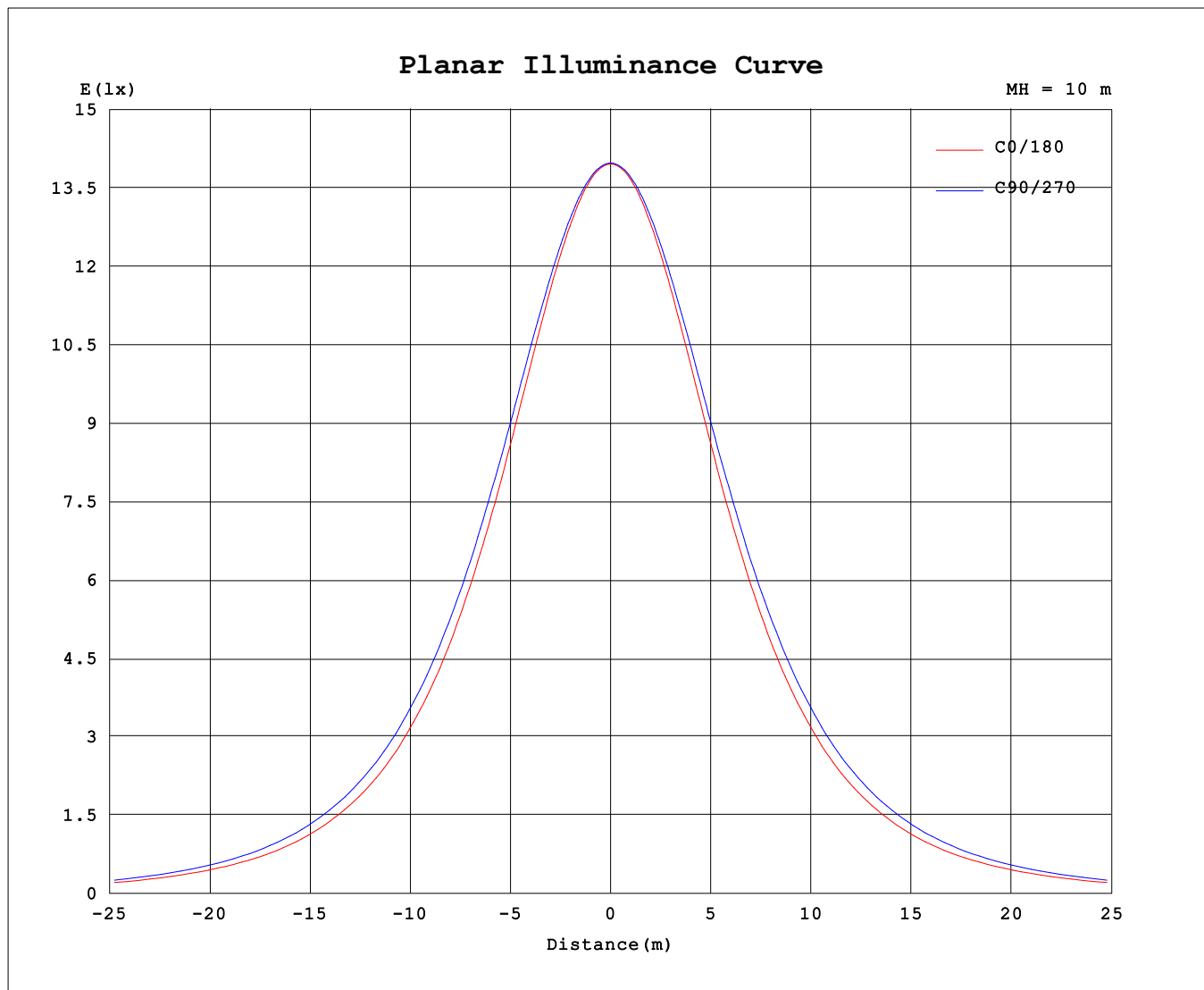
AvgL	cd/m2
L_0~180 (65) av	19089
L_0~180 (75) av	16711
L_0~180 (85) av	12450
L_90~270 (65) av	23025
L_90~270 (75) av	20395
L_90~270 (85) av	12642
L_45 (65) av	20859
L_45 (75) av	18285
L_45 (85) av	12400

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 27.2°C
 Operators: Alan Wang
 Test Date: 2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity: 45.1%
 Test Distance: 1.900m [K=1.0924]
 Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1396	1398	1398	1398	1398	1398	1398	1398	1398	1398	1398	1398	1396	1398	1398	1398	1398	1398	1398
5	1389	1391	1391	1392	1392	1393	1393	1393	1392	1392	1391	1391	1389	1391	1391	1392	1392	1393	1393
10	1367	1369	1371	1373	1376	1378	1378	1378	1376	1373	1371	1369	1367	1369	1371	1373	1376	1378	1378
15	1332	1334	1338	1343	1348	1352	1354	1352	1348	1343	1338	1334	1332	1334	1338	1343	1348	1352	1354
20	1282	1286	1293	1301	1310	1317	1319	1317	1310	1301	1293	1286	1282	1286	1293	1301	1310	1317	1319
25	1223	1227	1236	1249	1263	1272	1276	1272	1263	1249	1236	1227	1223	1227	1236	1249	1263	1272	1276
30	1151	1157	1169	1186	1203	1217	1222	1217	1203	1186	1169	1157	1151	1157	1169	1186	1203	1217	1222
35	1074	1079	1093	1114	1136	1152	1157	1152	1136	1114	1093	1079	1074	1079	1093	1114	1136	1152	1157
40	987	993	1010	1033	1058	1079	1086	1079	1058	1033	1010	993	987	993	1010	1033	1058	1079	1086
45	897	902	919	945	972	994	1003	994	972	945	919	902	897	902	919	945	972	994	1003
50	798	804	822	848	878	900	910	900	878	848	822	804	798	804	822	848	878	900	910
55	695	702	719	746	774	798	809	798	774	746	719	702	695	702	719	746	774	798	809
60	586	592	610	636	665	687	694	687	665	636	610	592	586	592	610	636	665	687	694
65	476	481	496	521	546	567	575	567	546	521	496	481	476	481	496	521	546	567	575
70	365	369	381	400	423	439	445	439	423	400	381	369	365	369	381	400	423	439	445
75	255	258	266	279	295	308	312	308	295	279	266	258	255	258	266	279	295	308	312
80	152	153	157	164	172	179	180	179	172	164	157	153	152	153	157	164	172	179	180
85	64.1	62.0	62.7	63.8	64.7	65.0	65.1	65.0	64.7	63.8	62.7	62.0	64.1	62.0	62.7	63.8	64.7	65.0	65.1
90	11.8	8.96	8.27	6.74	5.10	3.55	3.61	3.55	5.10	6.74	8.27	8.96	11.8	8.96	8.27	6.74	5.10	3.55	3.61
95	0.25	0.24	0.23	0.22	0.22	0.23	0.25	0.23	0.22	0.22	0.23	0.24	0.25	0.24	0.23	0.22	0.22	0.23	0.25
100	0.34	0.34	0.34	0.33	0.32	0.31	0.29	0.31	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.33	0.32	0.31	0.29
105	0.43	0.44	0.43	0.42	0.42	0.40	0.39	0.40	0.42	0.42	0.43	0.44	0.43	0.44	0.43	0.42	0.42	0.40	0.39
110	0.51	0.53	0.51	0.51	0.50	0.48	0.47	0.48	0.50	0.51	0.51	0.53	0.51	0.53	0.51	0.51	0.50	0.48	0.47
115	0.61	0.63	0.61	0.60	0.59	0.57	0.58	0.57	0.59	0.60	0.61	0.63	0.61	0.63	0.61	0.60	0.59	0.57	0.58
120	0.72	0.74	0.71	0.69	0.67	0.65	0.66	0.65	0.67	0.69	0.71	0.74	0.72	0.74	0.71	0.69	0.67	0.65	0.66
125	0.85	0.86	0.82	0.80	0.78	0.77	0.77	0.77	0.78	0.80	0.82	0.86	0.85	0.86	0.82	0.80	0.78	0.77	0.77
130	1.07	1.07	1.03	1.01	0.99	0.99	0.97	0.99	0.99	1.01	1.03	1.07	1.07	1.07	1.03	1.01	0.99	0.99	0.97
135	1.33	1.33	1.28	1.25	1.24	1.24	1.22	1.24	1.24	1.25	1.28	1.33	1.33	1.33	1.28	1.25	1.24	1.24	1.22
140	1.67	1.67	1.62	1.59	1.58	1.57	1.54	1.57	1.58	1.59	1.62	1.67	1.67	1.67	1.62	1.59	1.58	1.57	1.54
145	2.05	2.03	2.00	1.95	1.94	1.93	1.89	1.93	1.94	1.95	2.00	2.03	2.05	2.03	2.00	1.95	1.94	1.93	1.89
150	2.41	2.37	2.33	2.26	2.20	2.20	2.20	2.20	2.20	2.26	2.33	2.37	2.41	2.37	2.33	2.26	2.20	2.20	2.20
155	2.63	2.60	2.53	2.47	2.38	2.39	2.40	2.39	2.38	2.47	2.53	2.60	2.63	2.60	2.53	2.47	2.38	2.39	2.40
160	2.70	2.69	2.60	2.54	2.47	2.48	2.48	2.48	2.47	2.54	2.60	2.69	2.70	2.69	2.60	2.54	2.47	2.48	2.48
165	2.69	2.68	2.59	2.51	2.48	2.49	2.48	2.49	2.48	2.51	2.59	2.68	2.69	2.68	2.59	2.51	2.48	2.49	2.48
170	2.67	2.68	2.61	2.54	2.51	2.49	2.49	2.49	2.51	2.54	2.61	2.68	2.67	2.68	2.61	2.54	2.51	2.49	2.49
175	2.68	2.71	2.63	2.58	2.54	2.51	2.51	2.51	2.54	2.58	2.63	2.71	2.68	2.71	2.63	2.58	2.54	2.51	2.51
180	2.78	2.74	2.66	2.61	2.58	2.55	2.54	2.55	2.58	2.61	2.66	2.74	2.78	2.74	2.66	2.61	2.58	2.55	2.54

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.2556A P:30.478W PF:0.9929 Freq:60.01Hz Lamp Flux:4082.28x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	1398	1398	1398	1398	1398													
5	1393	1392	1392	1391	1391													
10	1378	1376	1373	1371	1369													
15	1352	1348	1343	1338	1334													
20	1317	1310	1301	1293	1286													
25	1272	1263	1249	1236	1227													
30	1217	1203	1186	1169	1157													
35	1152	1136	1114	1093	1079													
40	1079	1058	1033	1010	993													
45	994	972	945	919	902													
50	900	878	848	822	804													
55	798	774	746	719	702													
60	687	665	636	610	592													
65	567	546	521	496	481													
70	439	423	400	381	369													
75	308	295	279	266	258													
80	179	172	164	157	153													
85	65.0	64.7	63.8	62.7	62.0													
90	3.55	5.10	6.74	8.27	8.96													
95	0.23	0.22	0.22	0.23	0.24													
100	0.31	0.32	0.33	0.34	0.34													
105	0.40	0.42	0.42	0.43	0.44													
110	0.48	0.50	0.51	0.51	0.53													
115	0.57	0.59	0.60	0.61	0.63													
120	0.65	0.67	0.69	0.71	0.74													
125	0.77	0.78	0.80	0.82	0.86													
130	0.99	0.99	1.01	1.03	1.07													
135	1.24	1.24	1.25	1.28	1.33													
140	1.57	1.58	1.59	1.62	1.67													
145	1.93	1.94	1.95	2.00	2.03													
150	2.20	2.20	2.26	2.33	2.37													
155	2.39	2.38	2.47	2.53	2.60													
160	2.48	2.47	2.54	2.60	2.69													
165	2.49	2.48	2.51	2.59	2.68													
170	2.49	2.51	2.54	2.61	2.68													
175	2.51	2.54	2.58	2.63	2.71													
180	2.55	2.58	2.61	2.66	2.74													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500: